

IN THE CLAIMS

Please amend the claims as follows:

Claims 1, 15 and 20 are amended, claim 2 is canceled, and claim 21 is added. As a result, claims 1, 5-7, and 15-21 are now pending in this application.

1. (Currently Amended) A method of controlling an RF power amplifier comprising:
providing a bias signal to the RF power amplifier for normal operation;
detecting the magnitude of an input signal to be amplified by the RF power amplifier; and
changing the bias signal as a function of the input signal to reduce power consumption of
the RF power amplifier wherein the bias signal is removed when the magnitude of the input
signal reaches a predetermined threshold.
2. (Cancelled)
3. (Withdrawn)
4. (Withdrawn)
5. (Original) The method of claim 1 wherein the input signal is a digital baseband data.
6. (Original) The method of claim 5 and further including buffering the input signal.
7. (Original) The method of claim 6 wherein the bias signal is changed prior to the
corresponding input signal being provided to the RF power amplifier.
- 8.-14. (Withdrawn)

15. (Currently Amended) A RF power amplifier system comprising:
a FIFO buffer for buffering baseband digital data;
a FIFO buffer for buffering a digital representation of the power of the baseband digital data;
a comparator for providing a bias signal to an RF power amplifier as a function of the digital representation of the power of the baseband digital data; and
a converter for converting the baseband digital data to RF, and providing it to the RF power amplifier.

16. (Currently Amended) The RF power amplifier system of claim 15 wherein [the buffers are] FIFO buffers are of equal size.

17. (Original) The RF power amplifier system of claim 15 wherein the digital representation of the power is compared to a threshold power.

18. (Original) The RF power amplifier system of claim 17 wherein the bias signal turns the RF power amplifier on when the digital represent of the power is greater than the threshold.

19. (Original) The RF power amplifier system of claim 17 wherein the bias signal turns the RF power amplifier off when M consecutive power samples are all less than a threshold power.

20. (Currently Amended) A method of controlling a RF power amplifier system, the method comprising:
buffering baseband digital data;
buffering a digital representation of the power of the baseband digital data;
providing a bias signal to an RF power amplifier as a function of the digital representation of the power of the baseband digital data such that the bias signal is in an on or off state; and
converting the baseband digital data to RF, and providing it to the RF power amplifier.

21. (New) A method of controlling an RF power amplifier comprising:
providing a bias signal to the RF power amplifier for normal operation;
detecting the magnitude of an input signal to be amplified by the RF power amplifier; and
maintaining the bias signal relatively static when the magnitude of the input signal is
above a predetermined threshold, and removing the bias signal when the magnitude of the input
signal falls below the predetermine threshold.